

Amendments to the Claims

1. (Currently amended) A device for high-frequency and/or radio-frequency tuning comprising within one IC-package a first variable capacitor and at least one second fixed capacitor, ~~each of the at least one second capacitor being fixed or variable respectively,~~ at least one signal path connected to the first variable capacitor and providing at least one input and one output ~~port~~ signal port, and at least one controllable switching means for individually connecting and disconnecting said at least one ~~of the at least one~~ second fixed capacitor into the signal path or from the signal path, in parallel to the first variable capacitor.

2. (Currently amended) The device of Claim 1, further comprising at least one control ~~signal path,~~ isolated from the ~~rf-signal~~ signal path into which the at least one second capacitor is connectable, for controlling at least one of the switching means ~~and/or for controlling at least~~ and the first variable capacitor.

3. (Currently amended) The device of Claim 2, wherein the at least one control path comprises means for digitally controlling a plurality of switching means individually, ~~and/or wherein the at least one control path is connectable to an (E)EPROM, to an ASIC and/or to a FPGA, and/or wherein the at least one control path for controlling at least the first variable capacitor is adapted to be controllable via an analogue control signal or via a digital to analogue converter.~~

4. (Currently amended) The device of Claim 1, further comprising at least two second fixed capacitors arranged in logarithmic scale, and wherein the first variable capacitor at least is adapted to match the lowest range of the logarithmic scale.

5. (Currently amended) The device of Claim 1, wherein the switching means ~~respectively~~ comprises an actuator for driving a contact element of the switching means to close or open the switching means, ~~and/or wherein at least the first variable capacitor comprises an actuator for driving a movable element of said variable~~

~~capacitor to vary the effective area thereof, in particular by changing the distance between at least two plates or the degree of engagement of fingers of a comblike structure.~~

6. (Currently amended) The device of Claim 1, wherein the switching means ~~and/or~~ and at least the first variable capacitor respectively comprises an actuating mechanism based on at least one of an electrostatic, piezoelectric, thermal, magnetic ~~or~~ and bi-metallic actuator functionality.

7. (Currently amended) The device of Claim 1, wherein at least one controllable switching means is produced as MEMS rf-switch means, and the at least the first variable capacitor is produced as MEMS varactor ~~and/or at least one controllable switching means and a respectively associated second variable capacitor is produced as a common MEMS component.~~

8. (Currently amended) The device of Claim 1, produced by using a Micro-Electro-Mechanical-Systems technology, ~~in particular produced by employing a bulk micromachining and/or a surface micromachining technology.~~

9. (New) The device of Claim 2, wherein the at least one control path is connectable to one at least of an (E)EPROM, an ASIC and a FPGA.

10. (New) The device of Claim 2, wherein the at least one control path for controlling at least the first variable capacitor is adapted to be controllable via an analogue control signal.

11. (New) The device of Claim 10, wherein the analogue control signal is derived from a digital to analogue converter.

12. (New) The device of Claim 1, wherein at least the first variable capacitor comprises an actuator for driving a movable element of said variable capacitor to vary the effective area thereof.

13. (New) The device of Claim 12, wherein at least the first variable capacitor comprises an actuator for driving a movable element of said variable capacitor to vary the effective area thereof by changing the distance between at least two plates.

14. (New) The device of Claim 12, wherein at least the first variable capacitor comprises an actuator for driving a movable element of said variable capacitor to vary the effective area thereof by the degree of engagement of fingers of a comblike structure.

15. (New) A device for high-frequency and/or radio-frequency tuning comprising within one IC-package: a variable capacitor connected in a signal path between input and output signal ports; a plurality of fixed capacitors arranged in parallel with the variable capacitor and with each other; and a plurality of switches for individually connecting and disconnecting the fixed capacitors into and out of the signal path.

16. (New) The device as claimed in Claim 15, wherein the variable connector and switches are MEMS apparatus.

17. (New) The device as claimed in Claim 15, wherein the capacitance of the variable capacitor is controlled using an analogue control signal and the switches are controlled using a digital control signal.

18. (New) The device as claimed in Claim 17, wherein the variable connector and switches are MEMS apparatus.